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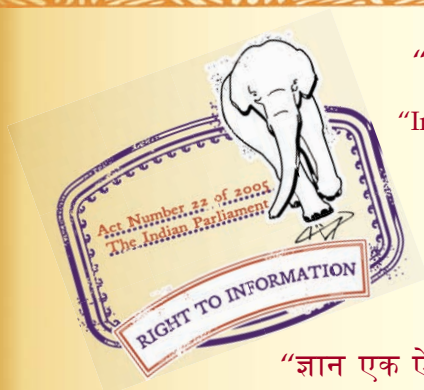
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IS 7943 (1976): Trichlorfon Dusting Powders [FAD 1:
Pesticides and Pesticides Residue Analysis]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 7943 - 1976

Indian Standard
SPECIFICATION FOR
TRICHLORFON DUSTING POWDERS

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INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

March 1976

Indian Standard

SPECIFICATION FOR TRICHLORFON DUSTING POWDERS

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AMENDMENT NO. 1 MAY 1994
TO
IS 7943 : 1976 SPECIFICATION FOR TRICHLORFON
DUSTING POWDERS

(Page 6, clause 4.1) — Substitute the following for the existing:

‘When freshly manufactured material in bulk quantity is offered for inspection, representative samples of the material shall be drawn and tested as prescribed in IS 10627 : 1983 within 90 days of its manufacture. When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627 : 1983. However, the criteria for conformity of the material when tested, shall be the limits of tolerances, as applicable over the declared nominal value and given under clause 2.2.1 of the standard ’

(FAD 1)

Reprography Unit, BIS, New Delhi, India

Indian Standard

SPECIFICATION FOR TRICHLORFON DUSTING POWDERS

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 28 January 1976, after the draft finalized by the Pest Control Sectional Committee had been approved by the Agricultural and Food Products Division Council and the Chemical Division Council.

0.2 Trichlorfon dusting powder formulations containing varying percentages of trichlorfon, technical, are used largely for controlling agricultural pests, household pests, and for the control of ectoparasites of domestic animals.

0.3 Trichlorfon dusting powder formulations are generally manufactured to contain 5 percent (m/m) of trichlorfon.

0.4 In the preparation of this standard due consideration has been given to the provisions of the Insecticides Act, 1968 and Rules framed thereunder. However, this standard is subject to the restrictions imposed under these, wherever applicable.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the requirements and the methods of sampling and test for trichlorfon dusting powder formulations.

2. REQUIREMENTS

2.1 Description — The material shall be in the form of powder. It shall be free-flowing and devoid of lumps. The trichlorfon, technical, used in its manufacture shall be properly extended in a suitable filler, such as talc or pyrophyllite. The material when dusted from a hand rotary duster shall issue freely without clogging or bridging.

*Rules for rounding off numerical values (*revised*).

IS : 7943 - 1976

2.1.1 Trichlorfon, technical, employed in the manufacture of this material shall conform to IS : 7945-1976*.

2.2 The material shall also comply with the requirements given in Table 1.

TABLE 1 REQUIREMENTS FOR TRICHLORFON DUSTING POWDERS

Sl. No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST, REF TO	
			Appendix in IS : 7945- 1976*	Cl No. of IS : 6940- 1973†
(1)	(2)	(3)	(4)	(5)
i)	Trichlorfon content, percent by mass	Nominal value as declar- ed on the container (see 2.2.1)	A	—
ii)	Material passing through 75-micron IS Sieve‡, percent by mass, <i>Min</i>	90	—	12.1
iii)	Bulk density after compacting	Not to exceed the value obtained before com- pacting by more than 60 percent	—	12.2
iv)	Acidity (as H_2SO_4), percent by mass, <i>Max</i>	0.2	—	11.3.2
	or	or		
v)	Alkalinity (as NaOH), percent by mass, <i>Max</i>	0.2	—	11.3.3

*Specification for trichlorfon, technical.

†Methods of tests for pesticides and their formulations.

‡See IS : 160-1962 Specification for test sieves (revised). BS Sieve 200, ASTM Sieve 200, Tyler Sieve 200 have their apertures within the limits specified for the above IS Sieve and may therefore be used as 75-micron IS Sieve.

2.2.1 Trichlorfon Content — When determined by the method specified in Appendix A of IS : 7945-1976*, the observed trichlorfon content, percent by mass, of any of the samples shall not differ from the declared nominal value by more than the tolerance limits indicated below:

Nominal Value, Percent	Tolerance Limit	
Up to 9	+ 10 — 5	} percent of the nominal value
10 and below 50	± 5	
50 and above	+ 5 — 3	

*Specification for trichlorfon, technical.

2.2.1.1 The actual value of the trichlorfon content shall be calculated to two decimal places and then rounded off to one decimal place before applying the tolerances as stipulated in 2.2.1.

3. PACKING AND MARKING

3.1 Packing — The material shall be packed in clean, dry containers made of mild steel, tinplate or fibreboard, or in double hessian bags, with outer hessian 298 g/m² and inner hessian 245 g/m², both of width 114·30 cm and bonded with 100 g/m² bitumen on each run; or in DW tarpaulin bags lined with kraft paper of substance 60 g/m²; or in high density polyethylene woven sacks.

3.1.1 When packed in any of the types of bags, they shall be provided with an internal polyethylene liner (of not less than 250 gauge), and in the form of a tubular sheath, bottom sealed. The length and breadth of the loose liner shall be 10 percent and 5 percent more respectively than that of the outer bag.

3.2 Marking — The containers shall be securely closed and shall bear legibly and indelibly the following information in addition to the information as is necessary under the Insecticides Act, and Rules:

- a) Name of the material;
- b) Name of the manufacturer;
- c) Date of manufacture;
- d) Batch number;
- e) Trichlorfon content;
- f) Net mass of contents; and
- g) The minimum cautionary notice worded as under:

‘KEEP WELL AWAY FROM FOODSTUFFS, EMPTY FOOD-STUFF CONTAINERS, AND ANIMAL FEED.’

3.2.1 When packed in bags (*see* 3.1), the pictorial marking for ‘USE NO HOOKS. DO NOT PUNCTURE.’ as specified in IS: 1260 (Part II)-1973* shall be stencilled on the bags.

3.2.2 The containers may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is

*Pictorial markings for handling and labelling of goods: Part II General goods (*first revision*).

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designed and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

4. SAMPLING

4.1 Representative samples of the material shall be drawn as prescribed in 'Indian Standard methods for sampling of pesticides and their formulations' (*under preparation*).

Note— Till such time this standard is published, the samples shall be drawn as agreed to between the parties concerned.

5. TESTS

5.1 Tests shall be carried out by the methods referred in col 4 and 5 of Table 1.

5.2 Quality of Reagents— Unless specified otherwise, pure chemicals and distilled water (*see* IS :1070-1960*) shall be employed in tests.

Note. — ' Pure chemicals ' shall mean chemicals that do not contain impurities which affect the results of analysis.

*Specification for water, distilled quality (*revised*).

**INDIAN STANDARDS
ON
PESTICIDES (EMULSIFIABLE CONCENTRATES)**

IS:

632-1972	BHC (HCH) emulsifiable concentrates (<i>third revision</i>)
633-1975	DDT emulsifiable concentrates (<i>first revision</i>)
1054-1962	Dieldrin emulsifiable concentrates (<i>revised</i>)
1307-1973	Aldrin emulsifiable concentrates (<i>first revision</i>)
1310-1974	Endrin emulsifiable concentrates (<i>first revision</i>)
2129-1962	Parathion emulsifiable concentrates
2567-1973	Malathion emulsifiable concentrates (<i>first revision</i>)
2682-1966	Chlordane emulsifiable concentrates (<i>first revision</i>)
2861-1964	Diazinon emulsifiable concentrates
2865-1964	Methyl parathion emulsifiable concentrates
3903-1975	Dimethoate emulsifiable concentrates (<i>first revision</i>)
3905-1966	Thiometon emulsifiable concentrates
4323-1967	Endosulfan emulsifiable concentrates
4325-1967	Binapacryl emulsifiable concentrates
4808-1968	Pyrethrum emulsifiable concentrates
5277-1969	Dichlorvos emulsifiable concentrates
5279-1969	Dicofol emulsifiable concentrates
5281-1969	Fenitrothion emulsifiable concentrates
6439-1972	Heptachlor emulsifiable concentrates
7946-1976	Toxaphene emulsifiable concentrates

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